GAS SENSOR

ABSTRACT OF THE DISCLOSURE

[0017] The gas sensor may be an apparatus for sensing a proportion of a gas in a gas mixture. A gas sensor may have a sampling element slidably engaged with a sensor element. The sensor element may have a sensing chamber therein with an inlet passage and an outlet passage formed in the sensor element wherein the inlet passage and the outlet passage may be in communication with the sensing chamber and externally to the sensor element. A first detector may be positioned in the sensing chamber with a first pair of external contacts passing through the sensor element terminating externally thereto. The sensor element may have a reference chamber therein with a second detector positioned therein and a second pair of external contacts passing through the sensor element terminating externally thereto. The sampling element may have a sample chamber therein with the sensor element forming a portion of the sample chamber. There may be a gas inlet port in the sampling element that may be in communication with the sample chamber and externally to the sample element.